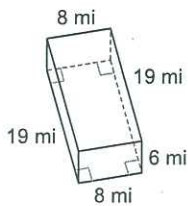


HW146 - Surface Area & Volume QUIZ Review

Date _____ Period _____

Find the **volume** of each figure.

1)

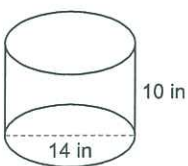


what shape? _____

Formula: _____

Find the **volume** of each figure. Leave your answers in **terms of π** .

2)

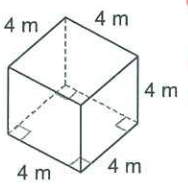


what shape? _____

Formula: _____

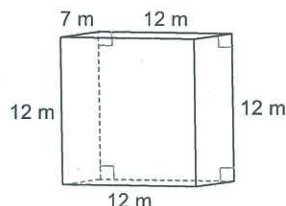
Find the **surface area** of each figure.

3)



what shape? _____ 4)

Formula: _____

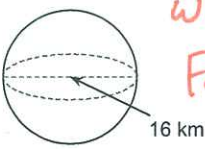


what shape? _____

Formula: _____

Find the **surface area** of each figure. Leave your answers in **terms of π** .

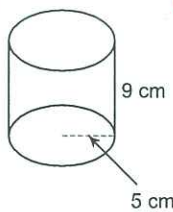
5)



what shape? _____

Formula: _____

6)

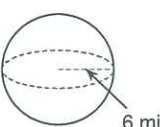


what shape? _____

Formula: _____

Find the **volume** of each figure. Leave your answers in **terms of π** .

7)

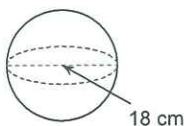


what shape? _____

Formula: _____

If the sphere below was cut into a HEMISPHERE, find the surface area of the hemisphere.
Leave your answers in terms of π .

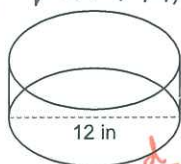
8)



Formula: _____

Given the volume of the shape below, find the missing side length.

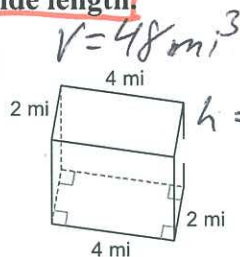
9) $V = 144\pi \text{ in}^3$ shape: right cylinder



formula: $V = \pi r^2 \cdot h$
 $144\pi = \pi (6)^2 \cdot h$

$r = \frac{d}{2}$
 $r = \frac{12}{2} = 6$

10)

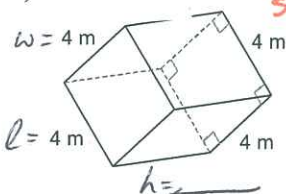


shape:
formula:

$h = \underline{\hspace{2cm}}$

Given the surface area of the shape below, find the missing side length.

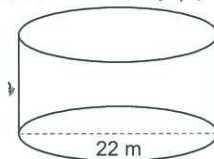
11) $SA = 128 \text{ m}^2$ shape: rectangular prism



formula:

12)

$SA = 484\pi \text{ m}^2$



$h = \underline{\hspace{2cm}}$

$r = \underline{\hspace{2cm}}$

Formulas! Learn Them!

	VOLUME	SURFACE AREA
Cube		
Rectangular Prism		
Right Cylinder		
Sphere		
Hemisphere		